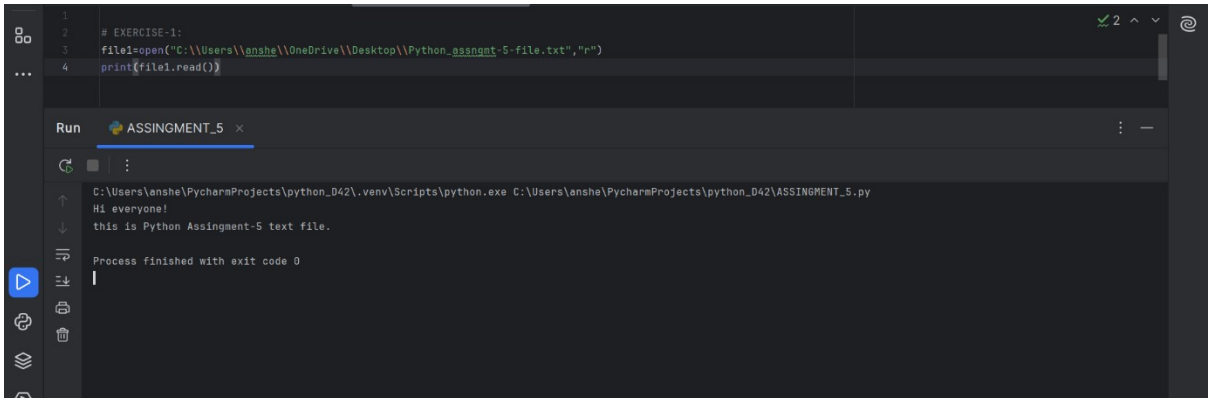
Exercise 1:

Write a Python program to read a file and display its contents

Code:

```
file1=open("C:\\Users\\anshe\\OneDrive\\Desktop\\Python_assngmt-5-file.txt","r")
print(file1.read())
```

Result:



Exercise 2:

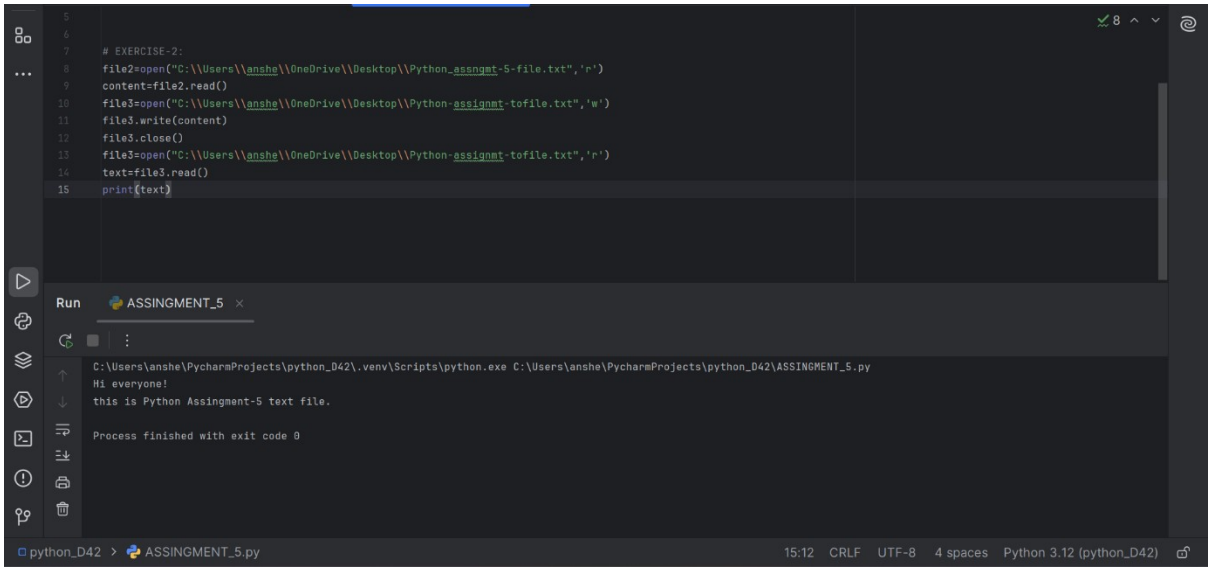
Write a Python program to copy the contents of one file to another file.

Code:

```
file2=open("C:\\Users\\anshe\\OneDrive\\Desktop\\Python_assngmt-5-file.txt",'r')
content=file2.read()
file3=open("C:\\Users\\anshe\\OneDrive\\Desktop\\Python-assignmt-tofile.txt",'w')
file3.write(content)
file3.close()
file3=open("C:\\Users\\anshe\\OneDrive\\Desktop\\Python-assignmt-
```

tofile.txt",'r')
text=file3.read()
print(text)

Result:



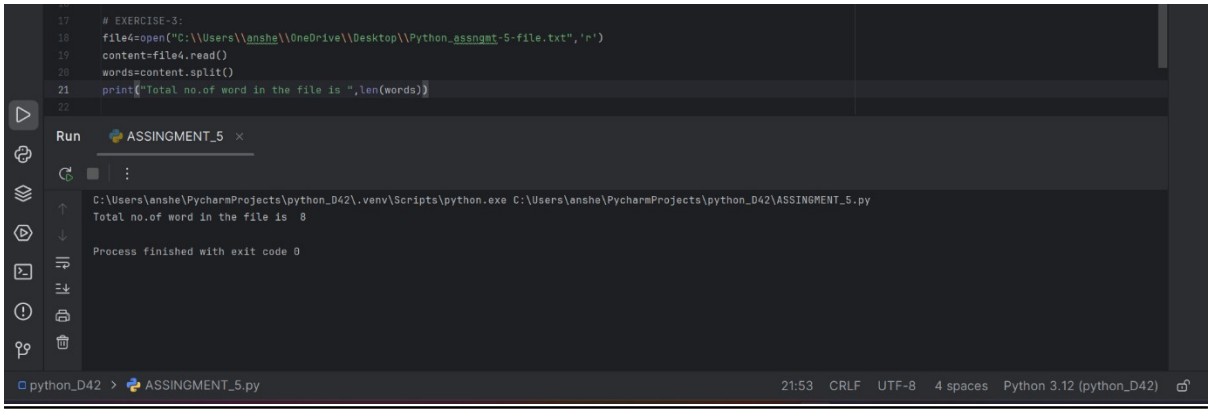
Exercise 3:

Write a Python program to read the content of a file and count the total number of words in that file.

Code:

file4=open("C:\\Users\\anshe\\OneDrive\\Desktop\\Python_assngmt-5-file.txt",'r')
content=file4.read()
words=content.split()
print("Total no.of word in the file is ",len(words)

Result:



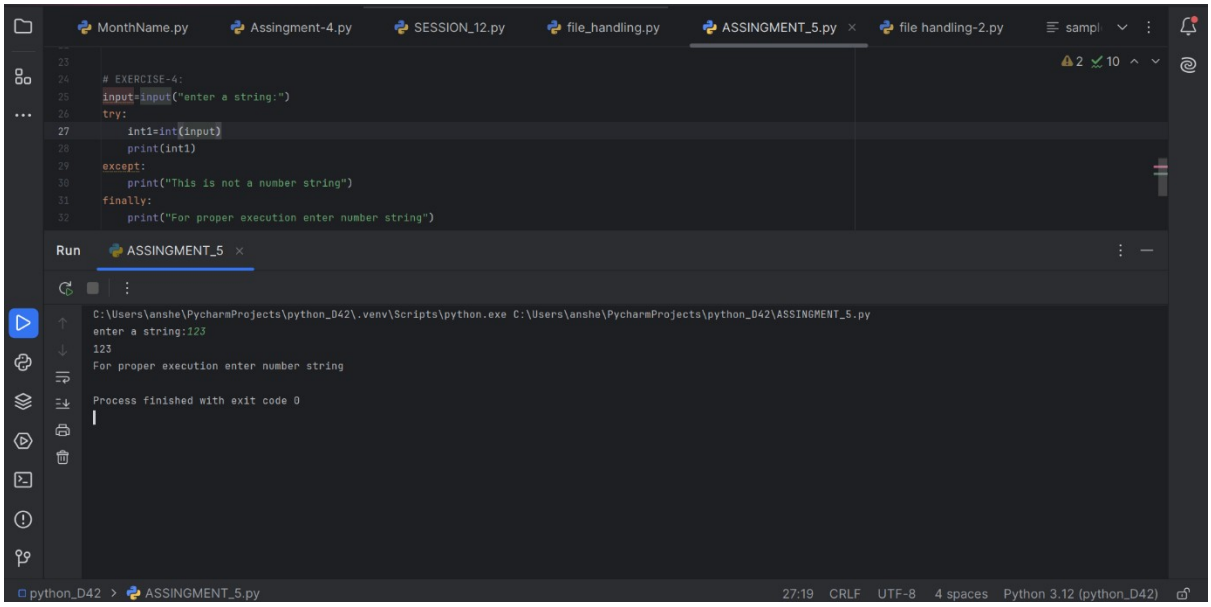
Exercise 4:

Write a Python program that prompts the user to input a string and converts it to an integer. Use try-except blocks to handle any exceptions that might occur.

Code:

```
input=input("enter a string:")
try:
    int1=int(input)
    print(int1)
except:
    print("This is not a number string")
finally:
    print("For proper execution enter number string")
```

Result:



Exercise 5:

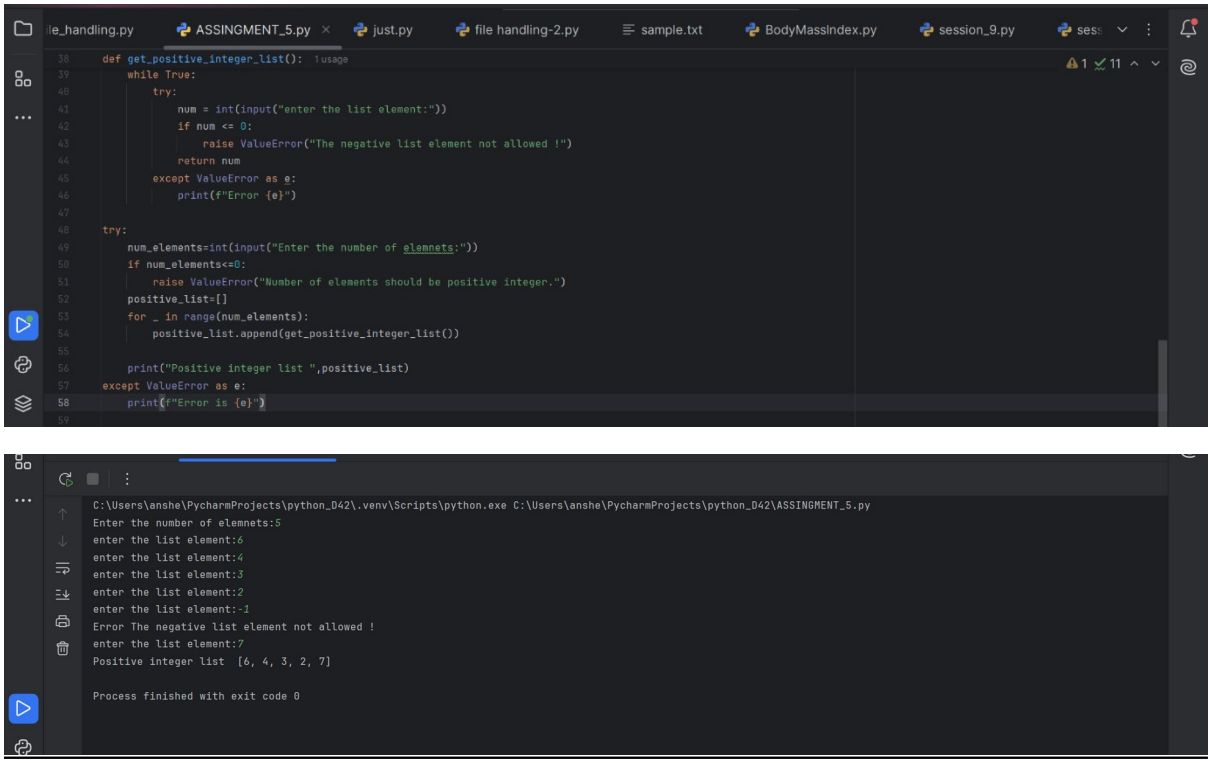
Write a Python program that prompts the user to input a list of integers and raises an exception if any of the integers in the list are negative.

Code:

```
def get_positive_integer_list():
    while True:
        try:
            num = int(input("enter the list element:"))
            if num <= 0:
                raise ValueError("The negative list element not allowed !")
            return num
        except ValueError as e:
            print(f"Error {e}")

try:
    num_elements=int(input("Enter the number of elemnets:"))
    if num_elements<=0:
        raise ValueError("Number of elements should be positive integer.")
    positive_list=[]
```

```
    for _ in range(num_elements):
        positive_list.append(get_positive_integer_list())

    print("Positive integer list ",positive_list)
except ValueError as e:
    print(f"Error is {e}")
```

Result:



Exercise 6:

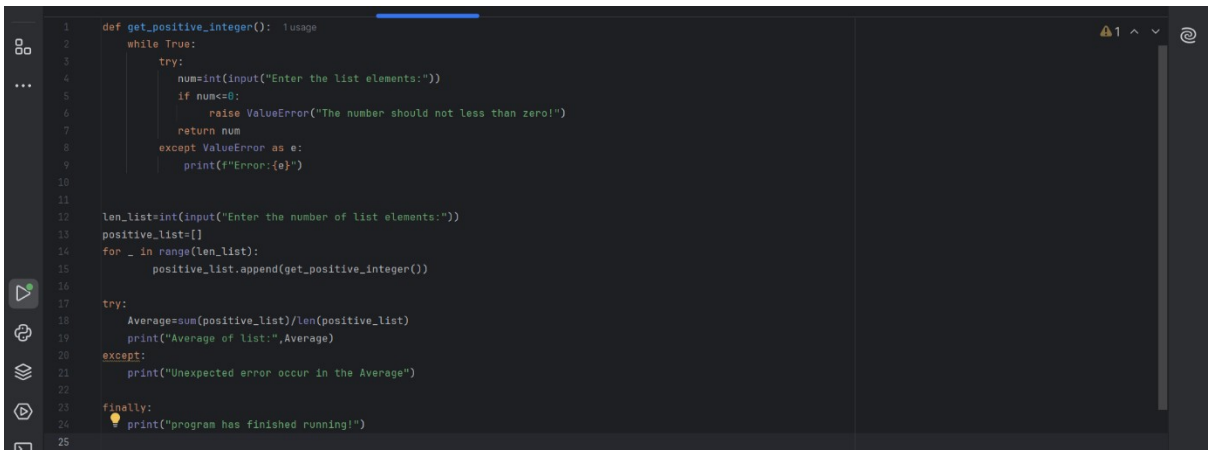
Write a Python program that prompts the user to input a list of integers and computes the average of those integers. Use try-except blocks to handle any exceptions that might occur.use the finally clause to print a message indicating that the program has finished running.

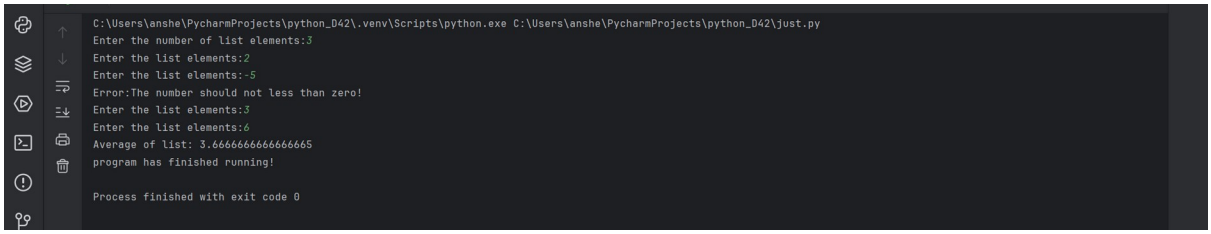
Code:

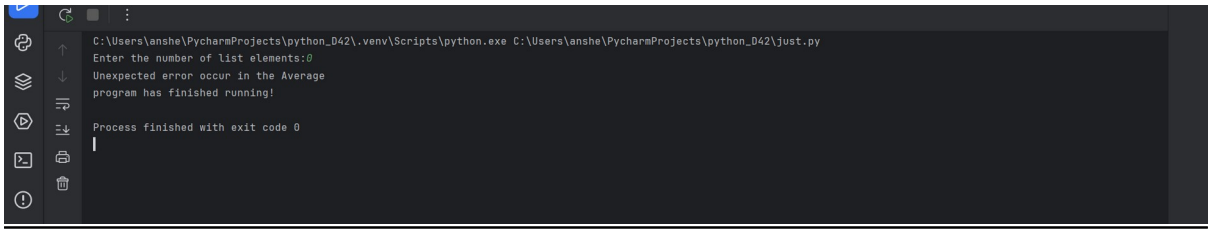
```
def get_positive_integer():
    while True:
```

```
        try:
            num=int(input("Enter the list elements:"))
            if num<=0:
                raise ValueError("The number should not less than zero!")
            return num
        except ValueError as e:
            print(f"Error:{e}")


len_list=int(input("Enter the number of list elements:"))
positive_list=[]
for _ in range(len_list):
        positive_list.append(get_positive_integer())

try:
    Average=sum(positive_list)/len(positive_list)
    print("Average of list:",Average)
except:
    print("Unexpected error occur in the Average")

finally:
    print("program has finished running!")
```

Result:







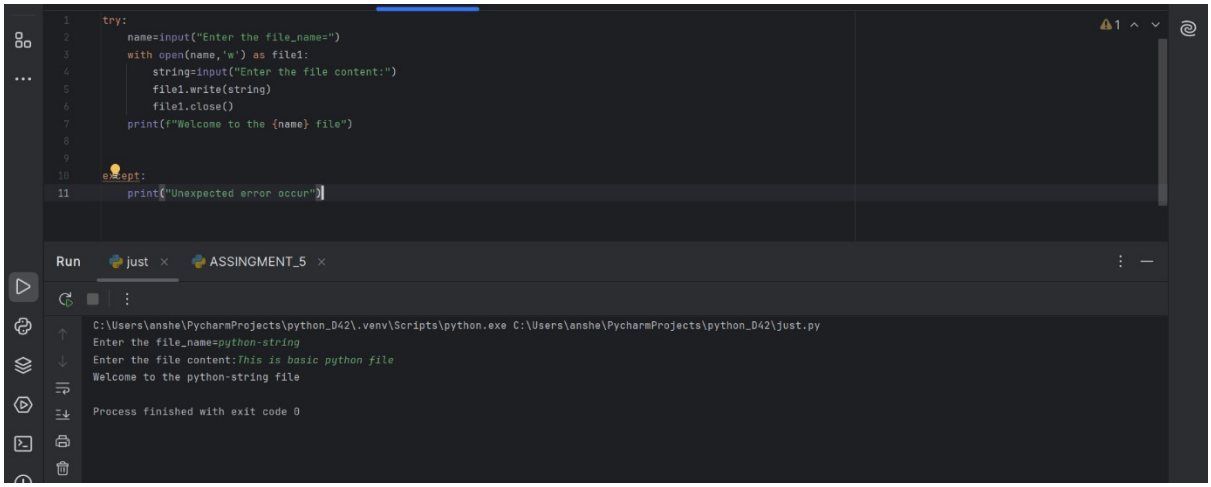
Exercise 7 :

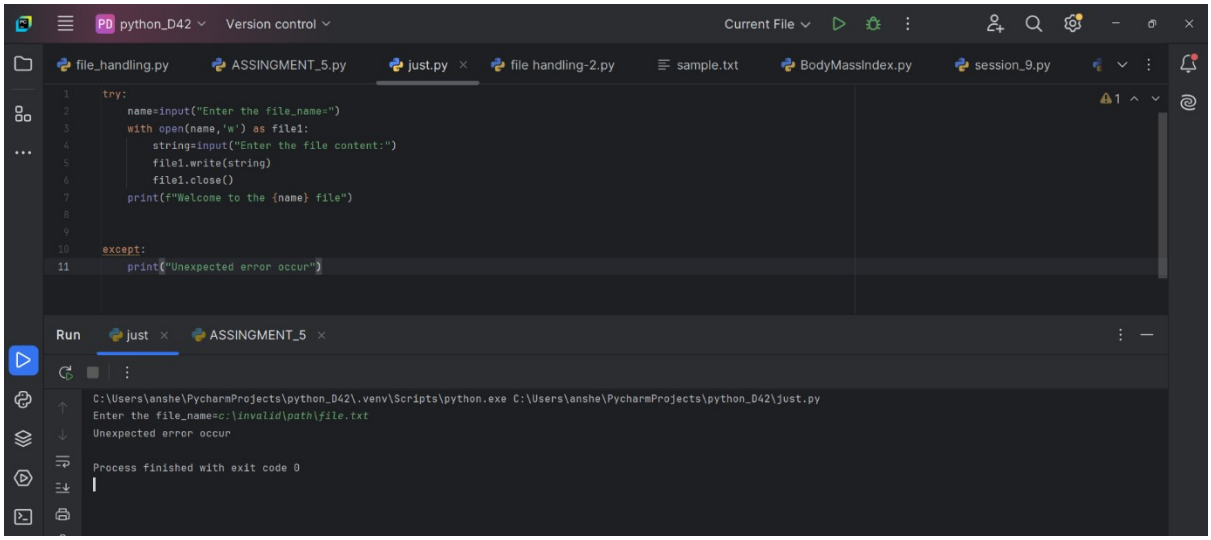
Write a Python program that prompts the user to input a filename and writes a string to that file. Use try-except blocks to handle any exceptions that might occur and print a welcome message if there is no exception occurred.

Code:

```
try:
    name=input("Enter the file_name=")
    with open(name,'w') as file1:
        string=input("Enter the file content:")
        file1.write(string)
        file1.close()
    print(f"Welcome to the {name} file")


except:
    print("Unexpected error occur")
```

Result:


try:
name=input("Enter the file_name=")
with open(name,'w') as file1:
string=input("Enter the file content:")
file1.write(string)
file1.close()
print(f"Welcome to the {name} file")
except:
print("Unexpected error occur")
Run
just
ASSINGMENT_5
C:\Users\anshe\PycharmProjects\python_D42\.venv\Scripts\python.exe C:\Users\anshe\PycharmProjects\python_D42\just.py
Enter the file_name=python-string
Enter the file content:This is basic python file
Welcome to the python-string file
Process finished with exit code 0


python_D42
Version control
Current File
file_handling.py
ASSINGMENT_5.py
just.py
file handling-2.py
sample.txt
BodyMassIndex.py
session_9.py
try:
name=input("Enter the file_name=")
with open(name,'w') as file1:
string=input("Enter the file content:")
file1.write(string)
file1.close()
print(f"Welcome to the {name} file")
except:
print("Unexpected error occur")
Run
just
ASSINGMENT_5
C:\Users\anshe\PycharmProjects\python_D42\.venv\Scripts\python.exe C:\Users\anshe\PycharmProjects\python_D42\just.py
Enter the file_name=c:\invalid\path\file.txt
Unexpected error occur
Process finished with exit code 0